

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **HBLED-LD5-60SE-N-UNV-L740-ED4-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-N-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

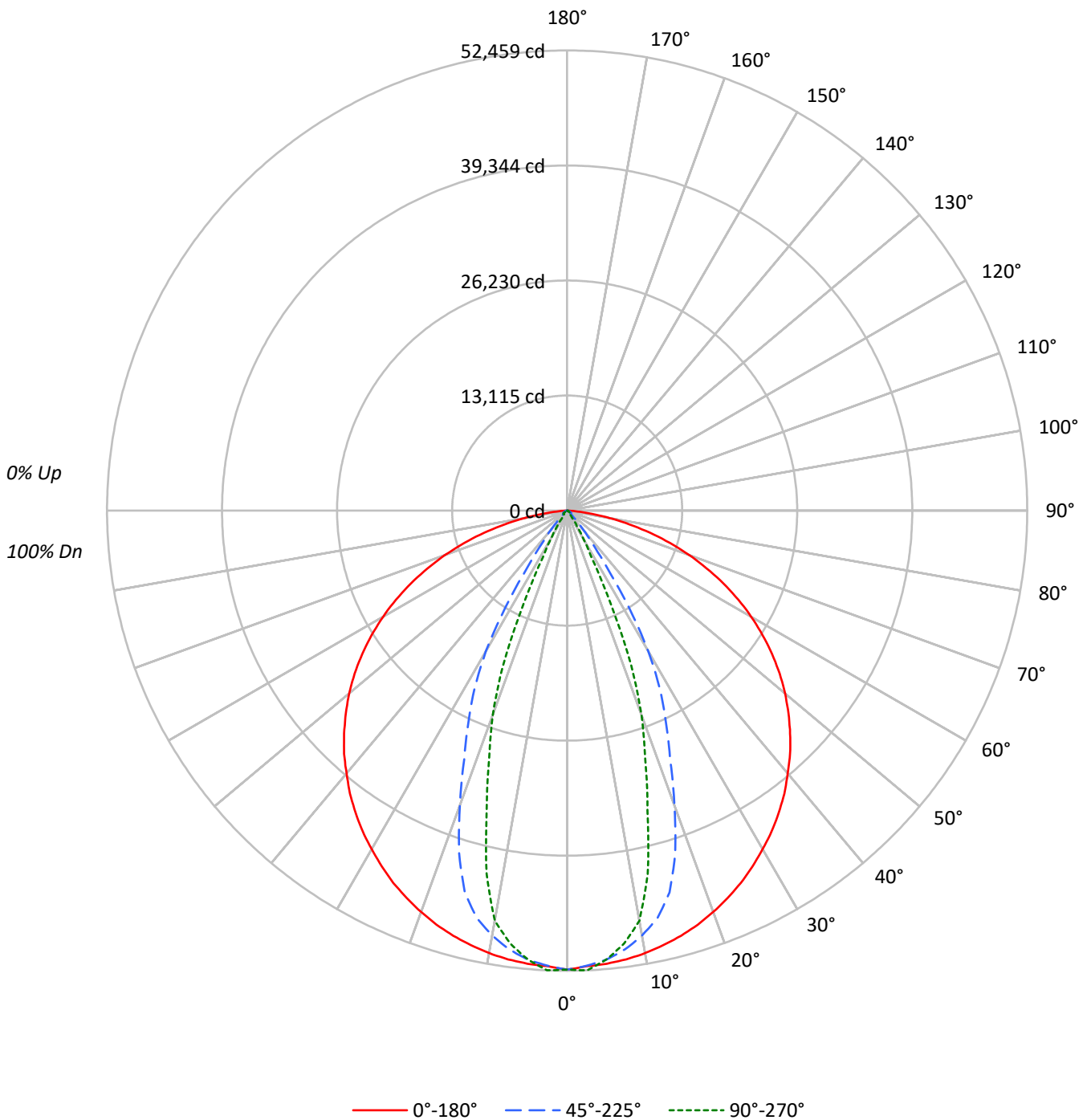
Lumens per Lamp: N/A
Luminaire Lumens: 55622.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 386
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	70412	70412	70412
5°	70035	69417	69386
10°	69991	67192	64835
15°	69893	62773	49343
20°	69730	51173	35517
25°	69552	39568	17496
30°	69245	28757	5674
35°	69081	12758	1460
40°	68719	5182	984
45°	68412	1454	1047
50°	67879	1032	1162
55°	66901	1226	496
60°	65250	1367	301
65°	62566	872	357
70°	58125	774	441
75°	50848	582	608
80°	38020	714	868
85°	18833	922	1153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4856.5	8.7
10°-20°	12143.6	21.8
20°-30°	13153.3	23.6
30°-40°	9740.6	17.5
40°-50°	7015.8	12.6
50°-60°	4344.1	7.8
60°-70°	2671.6	4.8
70°-80°	1408.3	2.5
80°-90°	288.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	30153.3	54.2
0°-40°	39894.0	71.7
0°-60°	51253.8	92.1
0°-90°	55622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	52332	52332	52332	52332	52332	
5°	51854	52045	51396	51433	51373	###
15°	50176	49011	45065	38323	35423	14164
25°	46850	42914	26652	16767	11785	21587
35°	42058	29650	7767	1827	889	26312
45°	35953	16704	764	553	550	27727
55°	28520	3440	523	473	212	25460
65°	19652	364	274	174	112	19390
75°	9781	85	112	147	117	10331
85°	1220	32	60	90	75	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	52331.7	52331.7	52331.7	52331.7	52331.7
2.5°	51995.6	52326.7	51935.9	52227.1	52458.7
5°	51853.7	52045.4	51395.7	51433.0	51373.2
7.5°	51604.8	51560.0	50467.1	49989.1	49780.0
10°	51228.9	50932.6	49180.0	48181.7	47454.8
12.5°	50743.4	50081.2	47574.3	44400.2	42428.5
15°	50175.8	49010.7	45064.9	38323.3	35423.0
17.5°	49498.7	47848.1	40962.2	32119.5	29530.4
20°	48699.5	46551.1	35739.2	27327.2	24805.3
22.5°	47808.3	44972.8	30665.6	22711.7	19114.4
25°	46849.8	42913.9	26652.5	16766.8	11785.3
27.5°	45742.0	40267.6	22888.4	9875.8	6014.6
30°	44569.5	37081.0	18509.4	5312.6	3652.1
32.5°	43386.9	33468.8	13097.2	3318.5	2071.3
35°	42057.6	29649.9	7767.2	1827.3	888.8
37.5°	40670.9	26149.7	4590.6	831.5	570.1
40°	39124.9	22950.7	2950.1	552.7	560.1
42.5°	37631.2	19968.3	1660.5	545.2	555.2
45°	35953.3	16704.5	764.3	552.7	550.2
47.5°	34218.1	13321.3	495.4	557.6	557.6
50°	32428.2	9524.8	492.9	570.1	555.2
52.5°	30538.7	5942.4	512.8	567.6	455.6
55°	28519.7	3440.5	522.8	473.0	211.6
57.5°	26428.5	2028.9	527.8	271.4	119.5
60°	24247.7	1122.8	507.9	201.6	112.0
62.5°	21999.7	535.2	400.8	189.2	109.5
65°	19652.1	363.5	273.8	174.3	112.0
67.5°	17214.9	281.3	216.6	164.3	114.5
70°	14775.2	209.1	196.7	164.3	112.0
72.5°	12295.6	141.9	164.3	166.8	112.0
75°	9781.2	84.6	112.0	146.9	117.0
77.5°	7289.2	52.3	87.1	151.9	141.9
80°	4906.8	44.8	92.1	141.9	112.0
82.5°	2880.3	39.8	89.6	109.5	89.6
85°	1219.9	32.4	59.7	89.6	74.7
87.5°	229.0	27.4	47.3	72.2	64.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)